

AMENDMENTS TO THE SPECIFICATION

Please change the title of the invention to read as follows:

METHOD FOR DETECTING EXTENSION REACTION WITH PRIMERS

Please amend page 6, lines 10-20 as follows:

In regard to the typing primer, ones other than the primer having the 3' end base to match to the base of the SNP site of the DNA, as described above, have been also developed. For example, ASP (Allele Specific Primer) developed by Toyobo Co., Ltd. is included ~~(see, web site of Toyobo Co., Ltd., retrieved on October 1, 2002, URL~~ (<http://www.toyobo.co.jp/seihin/xr/product/custom/snps/s-nps.html>)). ASP is a primer designed such that it has the second base from its 3' end corresponding to the SNP site, and in addition, the third base from its 3' end being certainly noncomplementary to the target base.

Please amend the Abstract as follows:

~~Convenient techniques for discriminating the base type in a base sequence of a nucleic acid are provided. The present invention is directed to a technique that includes the step (a) of preparing a sample solution containing a nucleic acid, a primer having a base sequence that includes a complementary binding region which complementarily binds to the nucleic acid, and a nucleotide; the step (b) of allowing the sample solution to stand under a condition to cause an extension reaction of the primer, and producing pyrophosphate when the extension reaction is caused; the step (c) the steps of bringing the a sample solution containing an extended nucleotide into contact with the front face of a H⁺-hardly permeable membrane having H⁺-pyrophosphatase, which penetrates from front to back of the membrane, of which active site such that the H⁺-pyrophosphatase hydrolyzes the pyrophosphate produced by the extension reaction and then being exposed to the front face; the step (d) of measuring the difference in the H⁺ concentration of at least either one of the solution at on the front face side of the H⁺-hardly permeable membrane or the solution at and on the back face side of the H⁺-hardly permeable membrane[[,]] in a state where the H⁺-pyrophosphatase is immersed in the solution; the step (e) of detecting the extension~~

Application No.: 10/674,787

~~reaction on the basis of the result of measurement in the step (d); and the step (f) of discriminating the base type in the base sequence of the nucleic acid on the basis of the result of detection in the step (e).~~